

Title (en)

Tool exchanger for machine-tools.

Title (de)

Werkzeugwechsler für programmgesteuerte Werkzeugmaschinen.

Title (fr)

Changeur d'outils pour machines-outils.

Publication

**EP 0396913 B1 19931027 (DE)**

Application

**EP 90106653 A 19900406**

Priority

DE 8905795 U 19890509

Abstract (en)

[origin: EP0396913A1] The subject matter of the invention is a tool exchanger for program-controlled machine tools, with a device for transporting selected tools between a tool magazine and a work spindle of the machine tool and with two tool grippers which are displaced by a predetermined swivel angle, are arranged in a supporting holder mounted on the transport device and can be rotated between an exchange position and at least one stand-by position. In order to permit quicker exchange operations of the tools in a horizontal and a vertical work spindle, the drive means for opening and closing both tool grippers (4, 5) are actuated simultaneously. The supporting holder (3) has a locking mechanism which locks the tool gripper located in the respective stand-by position in its closed state. <IMAGE>

IPC 1-7

**B23Q 3/155**; **B23Q 3/157**

IPC 8 full level

**B23Q 3/157** (2006.01); **B23Q 3/155** (2006.01)

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Cited by

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DOCDB simple family (publication)

**DE 8905795 U1 19890720**; DE 59003192 D1 19931202; EP 0396913 A1 19901114; EP 0396913 B1 19931027; ES 2047741 T3 19940301; JP H02303745 A 19901217; US 5142766 A 19920901

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